SUBJECT INDEX

Adsorption

Temporal Moments Analysis of Transport in Chemically Heterogeneous Porous Medium, Carlos Espinoza and Albert J. Valocchi, HE Oct. 98, p276-284.

Algorithms

Runoff Forecasting Using RBF Networks with OLS Algorithm, D. Achela Fernando and A. W. Jayawardena, HE July 98, p203-209.

Anaerobic processes

Determining Anaerobic BTEX Decay Rates in Contaminated Aquifer, Melody J. Hunt, Robert C. Borden and Morton A. Barlaz, HE Oct. 98, p285-293.

Anisotropic soils

Numerical Simulation of Radial Gas Flow: Effects of Soil Anisotropy, Well Placement and Surface Seal, Xunhong Chen and David C. Gosselin, HE Jan. 98, p52-61.

Anisotropy

Solutions of Unsaturated Seepage Problem by Power-Series Method, Michael Boger, HE July 98, p182-192.

Three-Dimensional Analytical Solutions for Unsaturated Seepage Problem, Michael Boger, HE July 98, p193-202.

Approximation methods

Flood Peak Attenuation and Forecast, V. P. Singh, J. Z. Li and G-T. Wang, HE Jan. 98, p20-25.

Solutions of Unsaturated Seepage Problem by Power-Series Method, Michael Boger, HE July 98, p182-192.

Aquifers

A Canal Drawdown Experiment for Determination of Aquifer Parameters, David Genereux and Jose Guardiario, HE Oct. 98, p292-302.

Determining Anaerobic BTEX Decay Rates in Contaminated Aquifer, Melody J. Hunt, Robert C. Borden and Morton A. Barlaz, HE Oct. 98, p285-293.

Impact of Sea Level Rise on Seawater Intrusion into Coastal Aquifer, Gyan S. Shrivastava, HE Jan. 98, p74-78.

Modeling of Artificial Recharge Basins of Different Shapes and the Effect on the Underlying Aquifer System, A. K. Rastogi and S. N. Pandey, HE Jan. 98, p62-68.

Prediction of Subsurface Storm Flow in Heterogeneous Sloping Aquifers, Emin C. Dogrul, M. Levent Kavvas and ZhiQiang Chen, HE Oct. 98, p258-267.

Areal

Average Areal Precipitation by Percentage Weighted Polygon Method, Zekai Şen, HE Jan. 98, p69-72.

Arid lands

Application of Gamma Autoregressive Model to Analysis of Dry Periods, Hikmet Kerem Cığızoğlu and M. Bayazıt, HE July 98, p218-221.

Artificial recharge

Modeling of Artificial Recharge Basins of Different Shapes and the Effect on the Underlying Aquifer System, A. K. Rastogi and S. N. Pandey, HE Jan. 98, p62-68.

Attenuation

Flood Peak Attenuation and Forecast, V. P. Singh, J. Z. Li and G-T. Wang, HE Jan. 98, p20-25.

Autocorrelation

Application of Gamma Autoregressive Model to Analysis of Dry Periods, Hikmet Kerem Cığızoğlu and M. Bayazıt, HE July 98, p218-221.

Auto-regressive models

Application of Gamma Autoregressive Model to Analysis of Dry Periods, Hikmet Kerem Cığızoğlu and M. Bayazıt, HE July 98, p218-221.

Basins

Modeling the Nile Basin Under Climatic Change, David N. Yates and Kenneth M. Strzepek, HE Apr. 98, p98-108.

Bayesian analysis

2D Variably Saturated Flows: Physical Scaling and Bayesian Estimation, Michel C. Boufadel, Makram T. Suidan, Albert D. Venosa, Christian H. Rauch and Pratim Biswas, HE Oct. 98, p223-231.

Beaches

2D Variably Saturated Flows: Physical Scaling and Bayesian Estimation, Michel C. Boufadel, Makram T. Suidan, Albert D. Venosa, Christian H. Rauch and Pratim Biswas, HE Oct. 98, p223-231.

Biodegradation

Determining Anaerobic BTEX Decay Rates in Contaminated Aquifer, Melody J. Hunt, Robert C. Borden and Morton A. Barlaz, HE Oct. 98, p285-293.

Boreholes

A Canal Drawdown Experiment for Determination of Aquifer Parameters, David Genereux and Jose Guardiario, HE Oct. 98, p292-302.

Canopies

Evapotranspiration of Melaleuca Forest in South Florida, David A. Chin, HE Apr. 98, p131-139.

Catchments

Average Areal Precipitation by Percentage Weighted Polygon Method, Zekai Şen, HE Jan. 98, p69-72.

Hydrological Effects of Land-Use Change in a Zero-Order Catchment, Stephen J. Burges, Mark S. Wigmosta and Jack M. Meena, HE Apr. 98, p86-97.

Modeling Spatial Variability of Rainfall Over a Catchment, James E. Ball and Kin Choi Luk, HE Apr. 98, p122-130.

Chemicals

Temporal Moments Analysis of Transport in Chemically Heterogeneous Porous Medium, Carlos Espinoza and Albert J. Valocchi, HE Oct. 98, p276-284.

Climatic changes

Impact of Sea Level Rise on Seawater Intrusion into Coastal Aquifer, Gyan S. Shrivastava, HE Jan. 98, p74-78.

Modeling the Nile Basin Under Climatic Change, David N. Yates and Kenneth M. Strzepek, HE Apr. 98, p98-108.

Coastal environment

Impact of Sea Level Rise on Seawater Intrusion into Coastal Aquifer, Gyan S. Shrivastava, HE Jan. 98, p74-78.

Confidence intervals

Approximate Confidence Intervals for Quantiles of Gamma and Generalized Gamma Distributions, Fahim Ashkar and Taha B. M. J. Ouarda, HE Jan. 98, p45-51.

Contaminants

Contaminant Source Solutions with Scale-Dependent Dispersitivities, Bruce Hunt, HE Oct. 98, p268-275.

Determining Anaerobic BTEX Decay Rates in Contaminated Aquifer, Melody J. Hunt, Robert C. Borden and Morton A. Barlaz, HE Oct. 98, p285-293.

Interlayer Diffusive Transfer and Transport of Contaminants in Stratified Formation. II: Analytical Solutions, Mohamed M. Hantush and Miguel A. Mariño, HE Oct. 98, p241-247.

Interlayer Diffusive Transfer and Transport of Contaminants in Stratified Formation. I: Theory, Mohamed M. Hantush and Miguel A. Mariño, HE Oct. 98, p232-240.

Modeling of 2D Density-Dependent Flow and Transport in the Subsurface, Jing-Ru Cheng, Robert O. Strobl, Gour-Tsyh Yeh, Hsin-Chi Lin and Woo Hee Choi, HE Oct. 98, p248-257.

Nondeterministic Evaluation of Field Scale-Dispersivity Relation, Mohammad S. Al-Suwaiyan, HE July 98, p215-217.

Darcy's law

Two Applications of Flow in Porous Media with Threshold Gradient, Angelos L. Protopapas, HE Apr. 98, p79-85.

Discharge

Flood Peak Attenuation and Forecast, V. P. Singh, J. Z. Li and G-T. Wang, HE Jan. 98, p20-25.

Dispersion

Contaminant Source Solutions with Scale-Dependent Dispersitivities, Bruce Hunt, HE Oct. 98, p268-275.

Interlayer Diffusive Transfer and Transport of Contaminants in Stratified Formation. II: Analytical Solutions, Mohamed M. Hantush and Miguel A. Mariño, HE Oct. 98, p241-247.

Interlayer Diffusive Transfer and Transport of Contaminants in Stratified Formation. I: Theory, Mohamed M. Hantush and Miguel A. Mariño, HE Oct. 98, p232-240.

Nondeterministic Evaluation of Field Scale-Dispersivity Relation, Mohammad S. Al-Suwaiyan, HE July 98, p215-217.

Doppler systems

Mean-Field Rainfall Bias Studies for WSR-88D, Emmanouil N. Anagnostou, Witold F. Krajewski, Dong-Jun Seo and Edward R. Johnson, HE July 98, p149-159.

Drawdown

A Canal Drawdown Experiment for Determination of Aquifer Parameters, David Genereux and Jose Guardiario, HE Oct. 98, p292-302.

Droughts

Susceptibility of Water Supply Reservoirs to Drought Conditions, Antonino Cancelliere, Alessandro Ancarani and Giuseppe Rossi, HE Apr. 98, p140-148.

Eritrea

Stream Gauging of Torrential Rivers of Eastern Eritrea, Garry L. Grabow, Peter G. McCornick and James G. Rankl, HE July 98, p211-214.

Error analysis

Mean-Field Rainfall Bias Studies for WSR-88D, Emmanouil N. Anagnostou, Witold F. Krajewski, Dong-Jun Seo and Edward R. Johnson, HE July 98, p149-159.

Estimating

Estimating Ice-Affected Streamflow by Extended Kalman Filtering, D. J. Holtschlag and M. S. Grewal, HE July 98, p174-181.

Estimation

Effect of Trimming on LP III Flood Quantile Estimates, Taha B.M.J. Ouarda and Fahim Ashkar, HE Jan. 98, p33-42.

Evaluation

Variable-Parameter Stage-Hydrograph Routing Method. Part II: Evaluation, Muthiah Perumal and Kittur G. Ranga Raju, HE Apr. 98, p115-121.

Evapotranspiration

Evapotranspiration of Melaleuca Forest in South Florida, David A. Chin, HE Apr. 98, p131-139.

Extraction procedures

Numerical Simulation of Radial Gas Flow: Effects of Soil Anisotropy, Well Placement and Surface Seal, Xunhong Chen and David C. Gosselin, HE Jan. 98, p52-61.

Finite element method

Modeling of 2D Density-Dependent Flow and Transport in the Subsurface, Jing-Ru Cheng, Robert O. Strobl, Gour-Tsyh Yeh, Hsin-Chi Lin and Woo Hee Choi, HE Oct. 98, p248-257.

Modeling of Artificial Recharge Basins of Different Shapes and the Effect on the Underlying Aquifer System, A. K. Rastogi and S. N. Pandey, HE Jan. 98, p62-68.

Flash floods

Stream Gauging of Torrential Rivers of Eastern Eritrea, Garry L. Grabow, Peter G. McCornick and James G. Rankl, HE July 98, p211-214.

Flood peaks

Flood Peak Attenuation and Forecast, V. P. Singh, J. Z. Li and G-T. Wang, HE Jan. 98, p20-25.

Flood stages

Variable-Parameter Stage-Hydrograph Routing Method. Part I: Theory, Muthiah Perumal and Kittur G. Ranga Raju, HE Apr. 98, p109-114.

Variable-Parameter Stage-Hydrograph Routing Method. Part II: Evaluation, Muthiah Perumal and Kittur G. Ranga Raju, HE Apr. 98, p115-121.

Floods

Approximate Confidence Intervals for Quantiles of Gamma and Generalized Gamma Distributions, Fahim Ashkar and Taha B. M. J. Ouarda, HE Jan. 98, p45-51.

Assessment of Scaling Behavior of Regional Floods, Ganesh R. Pandey, HE July 98, p169-173.

Effect of Trimming on LP III Flood Quantile Estimates, Taha B.M.J. Ouarda and Fahim Ashkar, HE Jan. 98, p33-42.

Florida

Evapotranspiration of Melaleuca Forest in South Florida, David A. Chin, HE Apr. 98, p131-139.

Flow

Two Applications of Flow in Porous Media with Threshold Gradient, Angelos L. Protopapas, HE Apr. 98, p79-85.

Forecasting

Flood Peak Attenuation and Forecast, V. P. Singh, J. Z. Li and G-T. Wang, HE Jan. 98, p20-25.

River Stage Forecasting Using Artificial Neural Networks, Konda Thirumalaiah and M. C. Deo, HE Jan. 98, p26-32.

Forests

Evapotranspiration of Melaleuca Forest in South Florida, David A. Chin, HE Apr. 98, p131-139.

Frequency analysis

Approximate Confidence Intervals for Quantiles of Gamma and Generalized Gamma Distributions, Fahim Ashkar and Taha B. M. J. Ouarda, HE Jan. 98, p45-51.

Effect of Trimming on LP III Flood Quantile Estimates, Taha B.M.J. Ouarda and Fahim Ashkar, HE Jan. 98, p33-42.

Gas flow

Numerical Simulation of Radial Gas Flow: Effects of Soil Anisotropy, Well Placement and Surface Seal, Xunhong Chen and David C. Gosselin, HE Jan. 98, p52-61.

Geographic information systems

DEM Based Overland Flow Routing Model, Menghua Wang and Allen T. Hjelmfelt, HE Jan. 98, p1-8.

Modeling Spatial Variability of Rainfall Over a Catchment, James E. Ball and Kin Choi Luk, HE Apr. 98, p122-130.

Ground water

Interlayer Diffusive Transfer and Transport of Contaminants in Stratified Formation. II: Analytical Solutions, Mohamed M. Hantush and Miguel A. Mariño, HE Oct. 98, p241-247.

Interlayer Diffusive Transfer and Transport of Contaminants in Stratified Formation. I: Theory, Mohamed M. Hantush and Miguel A. Mariño, HE Oct. 98, p232-240.

Ground-water flow

Modeling of Artificial Recharge Basins of Different Shapes and the Effect on the Underlying Aquifer System, A. K. Rastogi and S. N. Pandey, HE Jan. 98, p62-68.

Ground-water pollution

Contaminant Source Solutions with Scale-Dependent Dispersitivities, Bruce Hunt, HE Oct. 98, p268-275.

Ground-water recharge

Modeling of Artificial Recharge Basins of Different Shapes and the Effect on the Underlying Aquifer System, A. K. Rastogi and S. N. Pandey, HE Jan. 98, p62-68.

Hydraulic conductivity

A Canal Drawdown Experiment for Determination of Aquifer Parameters, David Genereux and Jose Guardiario, HE Oct. 98, p292-302.

Prediction of Subsurface Storm Flow in Heterogeneous Sloping Aquifers, Emin C. Dogrul, M. Levent Kavvas and ZhiQiang Chen, HE Oct. 98, p258-267.

Hydrocarbons

Determining Anaerobic BTEX Decay Rates in Contaminated Aquifer, Melody J. Hunt, Robert C. Borden and Morton A. Barlaz, HE Oct. 98, p285-293.

Hydrographs

Variable-Parameter Stage-Hydrograph Routing Method. Part I: Theory, Muthiah Perumal and Kittur G. Ranga Raju, HE Apr. 98, p109-114.

Variable-Parameter Stage-Hydrograph Routing Method. Part II: Evaluation, Muthiah Perumal and Kittur G. Ranga Raju, HE Apr. 98, p115-121.

Hydrologic data

Approximate Confidence Intervals for Quantiles of Gamma and Generalized Gamma Distributions, Fahim Ashkar and Taha B. M. J. Ouarda, HE Jan. 98, p45-51.

Hydrologic models

Evolution of Clark's Unit Graph Method to Spatially Distributed Runoff, Daniel W. Kull and Arlen D. Feldman, HE Jan. 98, p9-19.

Hydrology

Hydrological Effects of Land-Use Change in a Zero-Order Catchment, Stephen J. Burges, Mark S. Wigmosta and Jack M. Meena, HE Apr. 98, p86-97.

Interlayer Diffusive Transfer and Transport of Contaminants in Stratified Formation. II: Analytical Solutions, Mohamed M. Hantush and Miguel A. Mariño, HE Oct. 98, p241-247.

Interlayer Diffusive Transfer and Transport of Contaminants in Stratified Formation. I: Theory, Mohamed M. Hantush and Miguel A. Mariño, HE Oct. 98, p232-240.

River Stage Forecasting Using Artificial Neural Networks, Konda Thirumalaiah and M. C. Deo, HE Jan. 98, p26-32.

Stochastic Rainfall Synthesis Using Regionalized Model Parameters, Uwe Haberlandt, HE July 98, p160-168.

Ice

Estimating Ice-Affected Streamflow by Extended Kalman Filtering, D. J. Holtschlag and M. S. Grewal, HE July 98, p174-181.

Infiltration

DEM Based Overland Flow Routing Model, Menghua Wang and Allen T. Hjelmfelt, HE Jan. 98, p1-8.

Two Applications of Flow in Porous Media with Threshold Gradient, Angelos L. Protopapas, HE Apr. 98, p79-85.

Integrated systems

Evolution of Clark's Unit Graph Method to Spatially Distributed Runoff, Daniel W. Kull and Arlen D. Feldman, HE Jan. 98, p9-19.

Kalman filter

Estimating Ice-Affected Streamflow by Extended Kalman Filtering, D. J. Holtschlag and M. S. Grewal, HE July 98, p174-181.

Land usage

Hydrological Effects of Land-Use Change in a Zero-Order Catchment, Stephen J. Burges, Mark S. Wigmosta and Jack M. Meena, HE Apr. 98, p86-97.

Layered soils

Solutions of Unsaturated Seepage Problem by Power-Series Method, Michael Boger, HE July 98, p182-192.

Three-Dimensional Analytical Solutions for Unsaturated Seepage Problem, Michael Boger, HE July 98, p193-202.

Layered systems

Interlayer Diffusive Transfer and Transport of Contaminants in Stratified Formation. II: Analytical Solutions, Mohamed M. Hantush and Miguel A. Mariño, HE Oct. 98, p241-247.

Least squares method

Nondeterministic Evaluation of Field Scale-Dispersivity Relation, Mohammad S. Al-Suwaiyan, HE July 98, p215-217.

Runoff Forecasting Using RBF Networks with OLS Algorithm, D. Achela Fernando and A. W. Jayawardena, HE July 98, p203-209.

Measurement

A Canal Drawdown Experiment for Determination of Aquifer Parameters, David Genereux and Jose Guardiario, HE Oct. 98, p292-302.

Microbial activity

Determining Anaerobic BTEX Decay Rates in Contaminated Aquifer, Melody J. Hunt, Robert C. Borden and Morton A. Barlaz, HE Oct. 98, p285-293.

Modeling

Hydrological Effects of Land-Use Change in a Zero-Order Catchment, Stephen J. Burges, Mark S. Wigmosta and Jack M. Meena, HE Apr. 98, p86-97.

Interlayer Diffusive Transfer and Transport of Contaminants in Stratified Formation. I: Theory, Mohamed M. Hantush and Miguel A. Mariño, HE Oct. 98, p232-240.

Modeling of Artificial Recharge Basins of Different Shapes and the Effect on the Underlying Aquifer System, A. K. Rastogi and S. N. Pandey, HE Jan. 98, p62-68.

Modeling Spatial Variability of Rainfall Over a Catchment, James E. Ball and Kin Choi Luk, HE Apr. 98, p122-130.

Modeling the Nile Basin Under Climatic Change, David N. Yates and Kenneth M. Strzepek, HE Apr. 98, p98-108.

Runoff Forecasting Using RBF Networks with OLS Algorithm, D. Achela Fernando and A. W. Jayawardena, HE July 98, p203-209.

Models

Evapotranspiration of Melaleuca Forest in South Florida, David A. Chin, HE Apr. 98, p131-139.

Monte Carlo method

Mean-Field Rainfall Bias Studies for WSR-88D, Emmanouil N. Anagnostou, Witold F. Krajewski, Dong-Jun Seo and Edward R. Johnson, HE July 98, p149-159.

Prediction of Subsurface Storm Flow in Heterogeneous Sloping Aquifers, Emin C. Dogrul, M. Levent Kavvas and ZhiQiang Chen, HE Oct. 98, p258-267.

Neural networks

River Stage Forecasting Using Artificial Neural Networks, Konda Thirumalaiah and M. C. Deo, HE Jan. 98, p26-32.

Runoff Forecasting Using RBF Networks with OLS Algorithm, D. Achela Fernando and A. W. Jayawardena, HE July 98, p203-209.

Nile River

Modeling the Nile Basin Under Climatic Change, David N. Yates and Kenneth M. Strzepek, HE Apr. 98, p98-108.

Numerical models

Numerical Simulation of Radial Gas Flow: Effects of Soil Anisotropy, Well Placement and Surface Seal, Xunhong Chen and David C. Gosselin, HE Jan. 98, p52-61.

Overland flow

DEM Based Overland Flow Routing Model, Menghua Wang and Allen T. Hjelmfelt, HE Jan. 98, p1-8.

Performance

Susceptibility of Water Supply Reservoirs to Drought Conditions, Antonino Cancelliere, Alessandro Ancarani and Giuseppe Rossi, HE Apr. 98, p140-148.

Perturbation

Prediction of Subsurface Storm Flow in Heterogeneous Sloping Aquifers, Emin C. Dogrul, M. Levent Kavvas and ZhiQiang Chen, HE Oct. 98, p258-267.

Pollutants

Temporal Moments Analysis of Transport in Chemically Heterogeneous Porous Medium, Carlos Espinoza and Albert J. Valocchi, HE Oct. 98, p276-284.

Porous media

Modeling of 2D Density-Dependent Flow and Transport in the Subsurface, Jing-Ru Cheng, Robert O. Strobl, Gour-Tsyh Yeh, Hsin-Chi Lin and Woo Hee Choi, HE Oct. 98, p248-257.

Nondeterministic Evaluation of Field Scale-Dispersivity Relation, Mohammad S. Al-Suwaiyan, HE July 98, p215-217.

Temporal Moments Analysis of Transport in Chemically Heterogeneous Porous Medium, Carlos Espinoza and Albert J. Valocchi, HE Oct. 98, p276-284.

Porous media flow

Two Applications of Flow in Porous Media with Threshold Gradient, Angelos L. Protopapas, HE Apr. 98, p79-85.

Precipitation

Average Areal Precipitation by Percentage Weighted Polygon Method, Zekai Şen, HE Jan. 98, p69-72.

Stochastic Rainfall Synthesis Using Regionalized Model Parameters, Uwe Haberlandt, HE July 98, p160-168.

Probability

Assessment of Scaling Behavior of Regional Floods, Ganesh R. Pandey, HE July 98, p169-173.

Probability distribution

Approximate Confidence Intervals for Quantiles of Gamma and Generalized Gamma Distributions, Fahim Ashkar and Taha B. M. J. Ouarda, HE Jan. 98, p45-51.

Rain gages

Mean-Field Rainfall Bias Studies for WSR-88D, Emmanouil N. Anagnostou, Witold F. Krajewski, Dong-Jun Seo and Edward R. Johnson, HE July 98, p149-159.

Rainfall

Mean-Field Rainfall Bias Studies for WSR-88D, Emmanouil N. Anagnostou, Witold F. Krajewski, Dong-Jun Seo and Edward R. Johnson, HE July 98, p149-159.

Modeling Spatial Variability of Rainfall Over a Catchment, James E. Ball and Kin Choi Luk, HE Apr. 98, p122-130.

Rainfall-runoff relationships

Evolution of Clark's Unit Graph Method to Spatially Distributed Runoff, Daniel W. Kull and Arlen D. Feldman, HE Jan. 98, p9-19.

Hydrological Effects of Land-Use Change in a Zero-Order Catchment, Stephen J. Burges, Mark S. Wigmosta and Jack M. Meena, HE Apr. 98, p86-97.

Stochastic Rainfall Synthesis Using Regionalized Model Parameters, Uwe Haberlandt, HE July 98, p160-168.

Real-time programming

Estimating Ice-Affected Streamflow by Extended Kalman Filtering, D. J. Holtschlag and M. S. Grewal, HE July 98, p174-181.

Recharge basins

Modeling of Artificial Recharge Basins of Different Shapes and the Effect on the Underlying Aquifer System, A. K. Rastogi and S. N. Pandey, HE Jan. 98, p62-68.

Regional analysis

Assessment of Scaling Behavior of Regional Floods, Ganesh R. Pandey, HE July 98, p169-173.

Stochastic Rainfall Synthesis Using Regionalized Model Parameters, Uwe Haberlandt, HE July 98, p160-168.

Reservoir operation

Susceptibility of Water Supply Reservoirs to Drought Conditions, Antonino Cancelliere, Alessandro Ancarani and Giuseppe Rossi, HE Apr. 98, p140-148.

Rivers

Application of Gamma Autoregressive Model to Analysis of Dry Periods, Hikmet Kerem Cığızoğlu and M. Bayazıt, HE July 98, p218-221.

River Stage Forecasting Using Artificial Neural Networks, Konda Thirumalaiah and M. C. Deo, HE Jan. 98, p26-32.

Routing

Variable-Parameter Stage-Hydrograph Routing Method. Part I: Theory, Muthiah Perumal and Kittur G. Ranga Raju, HE Apr. 98, p109-114.

Variable-Parameter Stage-Hydrograph Routing Method. Part II: Evaluation, Muthiah Perumal and Kittur G. Ranga Raju, HE Apr. 98, p115-121.

Runoff

DEM Based Overland Flow Routing Model, Menghua Wang and Allen T. Hjelmfelt, HE Jan. 98, p1-8.

Modeling the Nile Basin Under Climatic Change, David N. Yates and Kenneth M. Strzepek, HE Apr. 98, p98-108.

Runoff forecasting

Runoff Forecasting Using RBF Networks with OLS Algorithm, D. Achela Fernando and A. W. Jayawardena, HE July 98, p203-209.

Salt water intrusion

Impact of Sea Level Rise on Seawater Intrusion into Coastal Aquifer, Gyan S. Shrivastava, HE Jan. 98, p74-78.

Modeling of 2D Density-Dependent Flow and Transport in the Subsurface, Jing-Ru Cheng, Robert O. Strobl, Gour-Tsyh Yeh, Hsin-Chi Lin and Woo Hee Choi, HE Oct. 98, p248-257.

Scale effect

2D Variably Saturated Flows: Physical Scaling and Bayesian Estimation, Michel C. Boufadel, Makram T. Suidan, Albert D. Venosa, Christian H. Rauch and Pratim Biswas, HE Oct. 98, p223-231.

Assessment of Scaling Behavior of Regional Floods, Ganesh R. Pandey, HE July 98, p169-173.

Contaminant Source Solutions with Scale-Dependent Dispersitivities, Bruce Hunt, HE Oct. 98, p268-275.

Nondeterministic Evaluation of Field Scale-Dispersivity Relation, Mohammad S. Al-Suwaiyan, HE July 98, p215-217.

Sea level

Impact of Sea Level Rise on Seawater Intrusion into Coastal Aquifer, Gyan S. Shrivastava, HE Jan. 98, p74-78.

Seals

Numerical Simulation of Radial Gas Flow: Effects of Soil Anisotropy, Well Placement and Surface Seal, Xunhong Chen and David C. Gosselin, HE Jan. 98, p52-61.

Seasonal variations

Mean-Field Rainfall Bias Studies for WSR-88D, Emmanouil N. Anagnostou, Witold F. Krajewski, Dong-Jun Seo and Edward R. Johnson, HE July 98, p149-159.

Seepage

A Canal Drawdown Experiment for Determination of Aquifer Parameters, David Genereux and Jose Guardiario, HE Oct. 98, p292-302.

Contaminant Source Solutions with Scale-Dependent Dispersitivities, Bruce Hunt, HE Oct. 98, p268-275.

Solutions of Unsaturated Seepage Problem by Power-Series Method, Michael Boger, HE July 98, p182-192.

Three-Dimensional Analytical Solutions for Unsaturated Seepage Problem, Michael Boger, HE July 98, p193-202.

Two Applications of Flow in Porous Media with Threshold Gradient, Angelos L. Protopapas, HE Apr. 98, p79-85.

Shape

Modeling of Artificial Recharge Basins of Different Shapes and the Effect on the Underlying Aquifer System, A. K. Rastogi and S. N. Pandey, HE Jan. 98, p62-68.

Simulation

Effect of Trimming on LP III Flood Quantile Estimates, Taha B.M.J. Ouarda and Fahim Ashkar, HE Jan. 98, p33-42.

Susceptibility of Water Supply Reservoirs to Drought Conditions, Antonino Cancelliere, Alessandro Ancarani and Giuseppe Rossi, HE Apr. 98, p140-148.

Slopes

Prediction of Subsurface Storm Flow in Heterogeneous Sloping Aquifers, Emin C. Dogrul, M. Levent Kavvas and ZhiQiang Chen, HE Oct. 98, p258-267.

Soils, unsaturated

Solutions of Unsaturated Seepage Problem by Power-Series Method, Michael Boger, HE July 98, p182-192.

Three-Dimensional Analytical Solutions for Unsaturated Seepage Problem, Michael Boger, HE July 98, p193-202.

Solutes

Interlayer Diffusive Transfer and Transport of Contaminants in Stratified Formation. II: Analytical Solutions, Mohamed M. Hantush and Miguel A. Mariño, HE Oct. 98, p241-247.

Interlayer Diffusive Transfer and Transport of Contaminants in Stratified Formation. I: Theory, Mohamed M. Hantush and Miguel A. Mariño, HE Oct. 98, p232-240.

Spatial data

Evolution of Clark's Unit Graph Method to Spatially Distributed Runoff, Daniel W. Kull and Arlen D. Feldman, HE Jan. 98, p9-19.

Spatial distribution

Modeling Spatial Variability of Rainfall Over a Catchment, James E. Ball and Kin Choi Luk, HE Apr. 98, p122-130.

Stochastic models

Stochastic Rainfall Synthesis Using Regionalized Model Parameters, Uwe Haberlandt, HE July 98, p160-168.

Stochastic processes

Prediction of Subsurface Storm Flow in Heterogeneous Sloping Aquifers, Emin C. Dogrul, M. Levent Kavvas and ZhiQiang Chen, HE Oct. 98, p258-267.

Storm surges

Impact of Sea Level Rise on Seawater Intrusion into Coastal Aquifer, Gyan S. Shrivastava, HE Jan. 98, p74-78.

Stormwater

Prediction of Subsurface Storm Flow in Heterogeneous Sloping Aquifers, Emin C. Dogrul, M. Levent Kavvas and ZhiQiang Chen, HE Oct. 98, p258-267.

Stormwater management

Stochastic Rainfall Synthesis Using Regionalized Model Parameters, Uwe Haberlandt, HE July 98, p160-168.

Stream gaging

Stream Gauging of Torrential Rivers of Eastern Eritrea, Garry L. Grabow, Peter G. McCornick and James G. Rankl, HE July 98, p211-214.

Stream gaging station

Stream Gauging of Torrential Rivers of Eastern Eritrea, Garry L. Grabow, Peter G. McCornick and James G. Rankl, HE July 98, p211-214.

Streamflow

Estimating Ice-Affected Streamflow by Extended Kalman Filtering, D. J. Holtschlag and M. S. Grewal, HE July 98, p174-181.

Streamflow forecasting

Application of Gamma Autoregressive Model to Analysis of Dry Periods, Hikmet Kerem Cığızoğlu and M. Bayazıt, HE July 98, p218-221.

Subsurface flow

Modeling of 2D Density-Dependent Flow and Transport in the Subsurface, Jing-Ru Cheng, Robert O. Strobl, Gour-Tsyh Yeh, Hsin-Chi Lin and Woo Hee Choi, HE Oct. 98, p248-257.

Prediction of Subsurface Storm Flow in Heterogeneous Sloping Aquifers, Emin C. Dogrul, M. Levent Kavvas and ZhiQiang Chen, HE Oct. 98, p258-267.

Three-dimensional analysis

Three-Dimensional Analytical Solutions for Unsaturated Seepage Problem, Michael Boger, HE July 98, p193-202.

Tides

2D Variably Saturated Flows: Physical Scaling and Bayesian Estimation, Michel C. Boufadel, Makram T. Suidan, Albert D. Venosa, Christian H. Rauch and Pratim Biswas, HE Oct. 98, p223-231.

Transport phenomena

Contaminant Source Solutions with Scale-Dependent Dispersitivities, Bruce Hunt, HE Oct. 98, p268-275.

Interlayer Diffusive Transfer and Transport of Contaminants in Stratified Formation. II: Analytical Solutions, Mohamed M. Hantush and Miguel A. Mariño, HE Oct. 98, p241-247.

Interlayer Diffusive Transfer and Transport of Contaminants in Stratified Formation. I: Theory, Mohamed M. Hantush and Miguel A. Mariño, HE Oct. 98, p232-240.

Modeling of 2D Density-Dependent Flow and Transport in the Subsurface, Jing-Ru Cheng, Robert O. Strobl, Gour-Tsyh Yeh, Hsin-Chi Lin and Woo Hee Choi, HE Oct. 98, p248-257.

Nondeterministic Evaluation of Field Scale-Dispersivity Relation, Mohammad S. Al-Suwaiyan, HE July 98, p215-217.

Temporal Moments Analysis of Transport in Chemically Heterogeneous Porous Medium, Carlos Espinoza and Albert J. Valocchi, HE Oct. 98, p276-284.

Travel time

Variable-Parameter Stage-Hydrograph Routing Method. Part I: Theory, Muthiah Perumal and Kittur G. Ranga Raju, HE Apr. 98, p109-114.

Variable-Parameter Stage-Hydrograph Routing Method. Part II: Evaluation, Muthiah Perumal and Kittur G. Ranga Raju, HE Apr. 98, p115-121.

Two-dimensional flow

2D Variably Saturated Flows: Physical Scaling and Bayesian Estimation, Michel C. Boufadel, Makram T. Suidan, Albert D. Venosa, Christian H. Rauch and Pratim Biswas, HE Oct. 98, p223-231.

Unit hydrographs

Evolution of Clark's Unit Graph Method to Spatially Distributed Runoff, Daniel W. Kull and Arlen D. Feldman, HE Jan. 98, p9-19.

Urban runoff

Stochastic Rainfall Synthesis Using Regionalized Model Parameters, Uwe Haberlandt, HE July 98, p160-168.

Water balance

Modeling the Nile Basin Under Climatic Change, David N. Yates and Kenneth M. Strzepek, HE Apr. 98, p98-108.

Water levels

River Stage Forecasting Using Artificial Neural Networks, Konda Thirumalaiah and M. C. Deo, HE Jan. 98, p26-32.

Water resources

Contaminant Source Solutions with Scale-Dependent Dispersitivities, Bruce Hunt, HE Oct. 98, p268-275.

Water shortage

Susceptibility of Water Supply Reservoirs to Drought Conditions, Antonino Cancelliere, Alessandro Ancarani and Giuseppe Rossi, HE Apr. 98, p140-148.

Watersheds

DEM Based Overland Flow Routing Model, Menghua Wang and Allen T. Hjelmfelt, HE Jan. 98, p1-8.

Evolution of Clark's Unit Graph Method to Spatially Distributed Runoff, Daniel W. Kull and Arlen D. Feldman, HE Jan. 98, p9-19.

Weather data

Mean-Field Rainfall Bias Studies for WSR-88D, Emmanouil N. Anagnostou, Witold F. Krajewski, Dong-Jun Seo and Edward R. Johnson, HE July 98, p149-159.

Weighting functions

Assessment of Scaling Behavior of Regional Floods, Ganesh R. Pandey, HE July 98, p169-173.

Average Areal Precipitation by Percentage Weighted Polygon Method, Zekai Şen, HE Jan. 98, p69-72.

Variable-Parameter Stage-Hydrograph Routing Method. Part I: Theory, Muthiah Perumal and Kittur G. Ranga Raju, HE Apr. 98, p109-114.

Variable-Parameter Stage-Hydrograph Routing Method. Part II: Evaluation, Muthiah Perumal and Kittur G. Ranga Raju, HE Apr. 98, p115-121.

Wells

Numerical Simulation of Radial Gas Flow: Effects of Soil Anisotropy, Well Placement and Surface Seal, Xunhong Chen and David C. Gosselin, HE Jan. 98, p52-61.

AUTHOR INDEX

Al-Suwaiyan, Mohammad S.
Nondeterministic Evaluation of Field Scale-Dispersivity Relation, HE July 98, p215-217

Anagnostou, Emmanouil N.
Mean-Field Rainfall Bias Studies for WSR-88D, with Witold F. Krajewski, Dong-Jun Seo and Edward R. Johnson, HE July 98, p149-159

Ancarani, Alessandro
see Cancelliere, Antonino, HE Apr. 98, p140-148

Ashkar, Fahim
Approximate Confidence Intervals for Quantiles of Gamma and Generalized Gamma Distributions, with Taha B. M. J. Ouarda, HE Jan. 98, p45-51
see Ouarda, Taha B.M.J., HE Jan. 98, p33-42

Ball, James E.
Modeling Spatial Variability of Rainfall Over a Catchment, with Kin Choi Luk, HE Apr. 98, p122-130

Barlaz, Morton A.
see Hunt, Melody J., HE Oct. 98, p285-293

Bayazıt, M.
see Cığızoğlu, Hikmet Kerem, HE July 98, p218-221

Biswas, Pratim
see Boufadel, Michel C., HE Oct. 98, p223-231

Boger, Michael
Solutions of Unsaturated Seepage Problem by Power-Series Method, HE July 98, p182-192
Three-Dimensional Analytical Solutions for Unsaturated Seepage Problem, HE July 98, p193-202

Borden, Robert C.
see Hunt, Melody J., HE Oct. 98, p285-293

Boufadel, Michel C.
2D Variably Saturated Flows: Physical Scaling and Bayesian Estimation, with Makram T. Suidan, Albert D. Venosa, Christian H. Rauch and Pratim Biswas, HE Oct. 98, p223-231

Burges, Stephen J.
Hydrological Effects of Land-Use Change in a Zero-Order Catchment, with Mark S. Wigmosta and Jack M. Meena, HE Apr. 98, p86-97

Cancelliere, Antonino
Susceptibility of Water Supply Reservoirs to Drought Conditions, with Alessandro Ancarani and Giuseppe Rossi, HE Apr. 98, p140-148

Chen, Xunhong
Numerical Simulation of Radial Gas Flow: Effects of Soil Anisotropy, Well Placement and Surface Seal, with David C. Gosselin, HE Jan. 98, p52-61

Chen, ZhiQiang
see Dogrul, Emin C., HE Oct. 98, p258-267

Cheng, Jing-Ru
Modeling of 2D Density-Dependent Flow and Transport in the Subsurface, with Robert O. Strobl, Gour-Tsyh Yeh, Hsin-Chi Lin and Woo Hee Choi, HE Oct. 98, p248-257

Chin, David A.
Evapotranspiration of Melaleuca Forest in South Florida, HE Apr. 98, p131-139

Choi, Woo Hee
see Cheng, Jing-Ru, HE Oct. 98, p248-257

Cığızoğlu, Hikmet Kerem
Application of Gamma Autoregressive Model to Analysis of Dry Periods, with M. Bayazıt, HE July 98, p218-221

Deo, M. C.
see Thirumalaiah, Konda, HE Jan. 98, p26-32

Dogrul, Emin C.
Prediction of Subsurface Storm Flow in Heterogeneous Sloping Aquifers, with M. Levent Kavvas and ZhiQiang Chen, HE Oct. 98, p258-267

Espinoza, Carlos
Temporal Moments Analysis of Transport in Chemically Heterogeneous Porous Medium, with Albert J. Valocchi, HE Oct. 98, p276-284

Feldman, Arlen D.
see Kull, Daniel W., HE Jan. 98, p9-19

Fernando, D. Achela
Runoff Forecasting Using RBF Networks with OLS Algorithm, with A. W. Jayawardena, HE July 98, p203-209

Genereux, David
A Canal Drawdown Experiment for Determination of Aquifer Parameters, with Jose Guardiario, HE Oct. 98, p292-302

Gosselin, David C.
see Chen, Xunhong, HE Jan. 98, p52-61

Grabow, Garry L.
Stream Gauging of Torrential Rivers of Eastern Eritrea, with Peter G. McCornick and James G. Rankl, HE July 98, p211-214

Grewal, M. S.
see Holtschlag, D. J., HE July 98, p174-181

Guardiario, Jose
see Genereux, David, HE Oct. 98, p292-302

Haberlandt, Uwe
Stochastic Rainfall Synthesis Using Regionalized Model Parameters, HE July 98, p160-168

Hantush, Mohamed M.
Interlayer Diffusive Transfer and Transport of Contaminants in Stratified Formation. II: Analytical Solutions, with Miguel A. Mariño, HE Oct. 98, p241-247
Interlayer Diffusive Transfer and Transport of Contaminants in Stratified Formation. I: Theory, with Miguel A. Mariño, HE Oct. 98, p232-240

Hjelmfelt, Allen T.
see Wang, Menghua, HE Jan. 98, p1-8

Holtschlag, D. J.
Estimating Ice-Affected Streamflow by Extended Kalman Filtering, with M. S. Grewal, HE July 98, p174-181

Hunt, Bruce
Contaminant Source Solutions with Scale-Dependent Dispersitivities, HE Oct. 98, p268-275

Hunt, Melody J.
Determining Anaerobic BTEX Decay Rates in Contaminated Aquifer, with Robert C. Borden and Morton A. Barlaz, HE Oct. 98, p285-293

Jayawardena, A. W.
see Fernando, D. Achela, HE July 98, p203-209

Johnson, Edward R.
see Anagnostou, Emmanouil N., HE July 98, p149-159

Kavvas, M. Levent
see Dogrul, Emin C., HE Oct. 98, p258-267

Krajewski, Witold F.
see Anagnostou, Emmanouil N., HE July 98, p149-159

Kull, Daniel W.
Evolution of Clark's Unit Graph Method to Spatially Distributed Runoff, with Arlen D. Feldman, HE Jan. 98, p9-19

Li, J. Z.
see Singh, V. P., HE Jan. 98, p20-25

Lin, Hsin-Chi
see Cheng, Jing-Ru, HE Oct. 98, p248-257

Luk, Kin Choi
see Ball, James E., HE Apr. 98, p122-130

Mariño, Miguel A.
see Hantush, Mohamed M., HE Oct. 98, p232-240
see Hantush, Mohamed M., HE Oct. 98, p241-247

McCornick, Peter G.
see Grabow, Garry L., HE July 98, p211-214

Meena, Jack M.
see Burges, Stephen J., HE Apr. 98, p86-97

Ouarda, Taha B. M. J.
see Ashkar, Fahim, HE Jan. 98, p45-51

Ouarda, Taha B.M.J.
Effect of Trimming on LP III Flood Quantile Estimates, with Fahim Ashkar, HE Jan. 98, p33-42

Pandey, Ganesh R.
Assessment of Scaling Behavior of Regional Floods, HE July 98, p169-173

Pandey, S. N.
see Rastogi, A. K., HE Jan. 98, p62-68

Perumal, Muthiah
Variable-Parameter Stage-Hydrograph Routing Method. Part I: Theory, with Kittur G. Ranga Raju, HE Apr. 98, p109-114
Variable-Parameter Stage-Hydrograph Routing Method. Part II: Evaluation, with Kittur G. Ranga Raju, HE Apr. 98, p115-121

Protopapas, Angelos L.
Two Applications of Flow in Porous Media with Threshold Gradient, HE Apr. 98, p79-85

Raju, Kittur G. Ranga
see Perumal, Muthiah, HE Apr. 98, p109-114
see Perumal, Muthiah, HE Apr. 98, p115-121

Rankl, James G.
see Grabow, Garry L., HE July 98, p211-214

Rastogi, A. K.
Modeling of Artificial Recharge Basins of Different Shapes and the Effect on the Underlying Aquifer System, with S. N. Pandey, HE Jan. 98, p62-68

Rauch, Christian H.
see Boufadel, Michel C., HE Oct. 98, p223-231

Rossi, Giuseppe
see Cancelliere, Antonino, HE Apr. 98, p140-148

Şen, Zekai
Average Areal Precipitation by Percentage Weighted Polygon Method, HE Jan. 98, p69-72

Seo, Dong-Jun
see Anagnostou, Emmanouil N., HE July 98, p149-159

Shrivastava, Gyan S.
Impact of Sea Level Rise on Seawater Intrusion into Coastal Aquifer, HE Jan. 98, p74-78

Singh, V. P.
Flood Peak Attenuation and Forecast, with J. Z. Li and G-T. Wang, HE Jan. 98, p20-25

Strobl, Robert O.
see Cheng, Jing-Ru, HE Oct. 98, p248-257

Strzepek, Kenneth M.
see Yates, David N., HE Apr. 98, p98-108

Suidan, Makram T.
see Boufadel, Michel C., HE Oct. 98, p223-231

Thirumalaiah, Konda
River Stage Forecasting Using Artificial Neural Networks, with M. C. Deo, HE Jan. 98, p26-32

Valocchi, Albert J.
see Espinoza, Carlos, HE Oct. 98, p276-284

Venosa, Albert D.
see Boufadel, Michel C., HE Oct. 98, p223-231

Wang, G-T.
see Singh, V. P., HE Jan. 98, p20-25

Wang, Menghua
DEM Based Overland Flow Routing Model, with Allen T. Hjelmfelt, HE Jan. 98, p1-8

Wigmosta, Mark S.
see Burges, Stephen J., HE Apr. 98, p86-97

Yates, David N.
Modeling the Nile Basin Under Climatic Change, with Kenneth M. Strzepek, HE Apr. 98, p98-108

Yeh, Gour-Tsyh
see Cheng, Jing-Ru, HE Oct. 98, p248-257